MULTIMEDIA UNIVERSITY ®

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 3, 2021 / 2022

DCA5114 – COMPUTER TECHNOLOGY AND APPLICATIONS

(All sections / Group)

12th AUGUST 2022
9.00 a.m. – 11.00 a.m.
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of 2 pages (excluding cover page) with 4 Questions only.

2. Attempt **ALL** questions in Section A and only one(1) question in Section B . The distribution of the marks for each question is given.

3. Write your answers in the Answer Booklet.

SECTION A.

Instructions: Answer **ALL** questions. Write your answers in the Answer Booklet.

QUESTION 1 [30 Marks]

a. Computers consist of many parts. Discuss the terms 'hardware' and 'software 'in detail with relevant examples. (8 marks)

b. All the devices are plays equally important roles in computer manufacturing.

Explain the purpose of the following devices with examples.

I. *Input device* (4 marks)

II. *Output device* (4 marks)

III. *Main memory* (4 marks)

c. Types of networks and understanding the functions of it is important to set up the proper network connection. Justify the functions of LAN and list two advantages and two disadvantages of a LAN network. (10 marks)

QUESTION 2 [30 Marks]

a. Computers not only giving positive impacts on society but also many negative impacts to our society. Indicate at least three negative impacts of computers on our society and express how it can be prevented. (6 marks)

b. Computer safeties are very important nowadays to make sure there are no safety problem occurs in the day-to-day computer usages. Give examples of five safety rules for the computer and why they should be followed. (10 marks)

c. Personal computer (PC) is most used computer. Describe the features of a personal computer (PC). (6 marks)

d. Mainframe and super computers are very powerful computer which are being used. Distinguish the difference between a mainframe computer and a supercomputer effectively. (8 marks)

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SECTION B.

Instructions: Answer 1 question ONLY. Write your answers in the Answer Booklet.

QUESTION 1 [40 Marks]

a. Explain briefly about all the 5 Network Topologies with diagram and state its advantages and disadvantages? (40 marks)

QUESTION 2 [40 Marks]

a. Explain in brief the following types of Information Systems with example?

I. Transaction Processing System (TPS) (6 marks)
II. Decision Support System (DSS) (6 marks)
III. Expert Information System (EIS) (6 marks)
IV. Management Information System (MIS) (6 marks)
V. Office Automation System (OAS) (6 marks)

b. List and explain the roles of System Providers in Information system? (10 marks)

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